

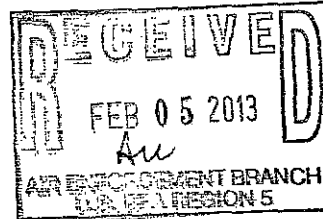


HERITAGE THERMAL SERVICES  
1250 St. George Street  
East Liverpool, Ohio 43920-3400  
Phone: 330-385-7337  
Fax: 330-385-7813  
www.heritage-thermal.com

OHSAS 18001: 2007

ISO 14001: 2004

ISO 9001: 2008



January 31, 2013  
VIA UPS and OEPA AIR SERVICES

Mr. George Czerniak, Chief (UPS)  
U.S. EPA Region V  
Air Enforcement and Compliance Assurance  
Branch  
Mail Code AE-17J  
77 West Jackson  
Chicago, IL 60604

Mr. Eric Bewley (Air Services)  
OEPA-DAPC-NEDO  
2110 E. Aurora Road  
Twinsburg, OH 44087

RE: HERITAGE-WTI, INC.  
D/B/A HERITAGE THERMAL SERVICES  
SEMI-ANNUAL STARTUP, SHUTDOWN, AND MALFUNCTION REPORT &  
SEMI-ANNUAL EXCESS EMISSIONS AND CMS REPORT

Greetings:

Please find enclosed a written report entitled *Semi-Annual Startup, Shutdown, and Malfunction Report* and *Semi-Annual Excess Emission and CMS Report* for Heritage-WTI, Inc. These reports are required by 40 CFR 63.10 and cover the time period of July 1, 2012 through December 31, 2012.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are certain penalties for submitting false information including the possibility of fine and imprisonment for knowing violations.

Thank you and if you have any questions or comments, please call me at the above number.

Sincerely,

A handwritten signature in dark ink, appearing to read "Stewart Fletcher".

Stewart Fletcher  
General Manager  
Heritage-WTI, Inc.

**SEMI-ANNUAL STARTUP, SHUTDOWN, AND MALFUNCTION REPORT  
&  
SEMI-ANNUAL EXCESS EMISSION AND CMS REPORT**

**for**

**Heritage-WTI, Inc.**  
d/b/a Heritage Thermal Services

**January 31, 2013**

**Section I – General Information**

**A. Facility Information**

Facility ID:	02-15-02-0233
Responsible Official's Name / Title:	Stewart Fletcher General Manager
Street Address:	1250 Saint George Street
City:	East Liverpool
State:	Ohio
Zip Code:	43920
Facility Name:	Heritage-WTI, Inc. d/b/a Heritage Thermal Services
Facility Local Contact Name:	Vincent Waggle Environmental Engineer

**B. Relevant standard(s) or other requirement(s) that is/are the basis for this report:**

63.10(d)(5)(i) – Periodic Startup, Shutdown, and Malfunction Reports

**C. Are you requesting a waiver of recordkeeping and/or reporting requirements under the applicable relevant standard(s) in conjunction with this report?**

☐ Yes

☒ No

If you answered yes, you must submit the application for a waiver of recordkeeping and/or reporting requirements together with this report. The application for waiver should include whatever information you consider useful to convince the Administrator that a waiver of recordkeeping or recording is warranted. (63.10(f)(3))

**Section II – Certification**

Based upon information and belief formed after a reasonable inquiry, I as a responsible official of the above-mentioned facility, certify the information contained in this report is accurate and true to the best of my knowledge.

**Stewart Fletcher, General Manager**

Signature: \_\_\_\_\_

*Stewart Fletcher*

Date: \_\_\_\_\_

*1/29/13*

**Section III – Startup, Shutdown, and Malfunction Reports**

A. Startup, Shutdown, or Malfunction Actions

All actions taken by Heritage-WTI, Inc. during startup, shutdown, or malfunction events during the reporting period of **July 1, 2012 through December 31, 2012** were consistent with the procedures specified in the facility's Startup, Shutdown, and Malfunction Plan.

B. Malfunctions

Please find in the table below a list of each malfunction, the durations, and a brief description of the type of malfunction that occurred during the reporting period of **July 1, 2012 through December 31, 2012**.

**See next page for completed table**

HERITAGE\_WTI, INC.  
SEMI-ANNUAL SSMP, EE,  
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January 31, 2012

Parameter	Start Time	End Time	Value	Category	Description	Action
SCC Temperature	7/3/12 20:25	7/3/12 21:35	70.23	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
Kiln Temperature	7/3/12 20:27	7/3/12 21:35	68.22	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
RJ DP	7/3/12 20:38	7/3/12 21:35	57.50	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
SCC Pressure Using Seals	7/3/12 20:47	7/3/12 21:36	48.50	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
ESP Inlet Temperature	7/3/12 20:49	7/3/12 21:33	44.00	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
Total PB DP	7/3/12 21:02	7/3/12 21:35	33.47	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
RJ Flow	7/3/12 21:08	7/3/12 21:35	27.50	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
RJ Blowdown Flow	7/3/12 21:09	7/3/12 21:09	0.42	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.

HERITAGE WTI, INC.  
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Unit	Start Time	Stop Time	Duration (min)	Category	Cause	Resolution
RJ Blowdown Flow	7/3/12 21:10	7/3/12 21:35	25.40	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
RJ DP	7/3/12 23:34	7/3/12 23:38	3.98	Malfunction - Equipment	Blown gasket caused boiler feed water loss and unit shutdown.	Gasket replaced. Unit restarted.
THC	7/5/12 17:55	7/5/12 18:00	5.00	Malfunction - Combustion Anomaly	Unexpected and unpreventable combustion upset caused THC.	Reviewed waste feeds. Restarted unit.
THC	7/13/12 9:50	7/13/12 10:36	45.98	Malfunction - Lance Purge	Direct drum lance purged unexpectedly causing poor combustion.	Cleared line. Restarted unit.
THC	7/24/12 20:25	7/24/12 21:15	49.52	Malfunction - Lance Plugging	Plugging in the Hi BTU lance caused poor combustion.	Cleared lance. Restarted unit.
THC	7/28/12 19:23	7/28/12 19:31	8.30	Malfunction - Combustion Anomaly	Unexpected and unpreventable combustion upset caused THC.	Reviewed waste feeds. Restarted unit.
RJ DP	8/10/12 22:00	8/10/12 22:02	2.08	Malfunction - Instrument	Bad boiler level transmitter caused ID fan shutdown.	Re-calibrated instrument. Restarted unit.
Lance Atomization	8/20/12 1:03	8/20/12 1:28	24.27	Malfunction - Power Failure	Electrical storm caused brief power loss.	Regained power. Started unit.

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Event	Start Time	End Time	Duration (min)	Alarm Type	Alarm Description	Alarm Action
SDA ECIS Flow	8/20/12 1:06	8/20/12 1:33	27.38	Malfunction - Power Failure	Electrical storm caused brief power loss.	Regained power. Started unit.
Scrubber ECIS Flow	8/20/12 1:09	8/20/12 1:53	43.88	Malfunction - Power Failure	Electrical storm caused brief power loss.	Regained power. Started unit.
THC	8/27/12 22:09	8/27/12 22:09	0.60	Malfunction - Computer	Redundant MACT computer time sync off, re-recorded previous event.	Corrected computer timing. Restarted unit.
ESP Field #1 Current	9/2/12 9:19	9/2/12 9:39	19.58	Malfunction - ESP Electronics	ESP rappers failed causing ash build-up on plates.	WO#124119. Restarted rapping program.
Lance Atomization	9/3/12 14:41	9/3/12 15:06	25.28	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
SCC Pressure Using Seals	9/3/12 14:45	9/3/12 14:46	0.58	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
SCC Pressure Using Seals	9/3/12 14:50	9/3/12 15:08	18.12	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
SCC Pressure Using Seals	9/3/12 15:10	9/3/12 15:16	6.65	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.

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Parameter	Start Time	End Time	Reading (Unit)	Alarm Type	Alarm Description	Operator Action
SCC Temperature	9/3/12 21:53	9/4/12 1:14	200.73	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
Kiln Temperature	9/3/12 22:30	9/4/12 1:06	155.50	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
RJ Sump Level	9/3/12 22:30	9/3/12 22:32	2.03	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
RJ DP	9/3/12 22:30	9/4/12 1:06	155.48	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
RJ Flow	9/3/12 22:32	9/4/12 0:54	141.07	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
SCC Pressure Using Seals	9/3/12 23:17	9/3/12 23:38	20.72	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
SCC Pressure Using Seals	9/3/12 23:42	9/3/12 23:43	1.02	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
RJ Blowdown Flow	9/4/12 0:08	9/4/12 0:56	48.02	Malfunction - Power Failure	City-wide power loss caused immediated shutdown.	City power stabilized. Unit restarted.
Scrubber ECIS Flow	9/8/12 7:46	9/8/12 7:52	6.12	Malfunction - Feed Screw	Carbon feed lost when feed screw	Repaired screw. Restarted

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HERITAGE WTI, INC.  
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Name	Date Time	Date Time	Flow Rate	Location	Description	Comments
					malfunctioned.	unit.
SCC Pressure Using Seals	9/18/12 9:00	9/18/12 9:00	0.50	Malfunction - Clinker Fell	Ash fall from SCC into quench caused seal pressure loss	Maintained draft using fan damper.
SCC Pressure Using Seals	9/22/12 20:08	9/22/12 20:09	0.50	Malfunction - Clinker Fell	Ash fall from SCC into quench caused seal pressure loss	Maintained draft using fan damper.
THC	10/5/12 10:04	10/5/12 10:36	31.53	Malfunction - Lance Purge	Startup of direct drum lance caused rapid heat input and poor combustion.	Adjusted feeds. Restarted unit.
RJ DP	10/5/12 11:15	10/5/12 12:56	100.80	Malfunction - Prior AWFCO	ID fan shutdown due to high boiler level.	Restarted unit.
RJ Flow	10/5/12 11:24	10/5/12 11:35	11.47	Malfunction - Scrubber Pump	Pump failed causing OPL loss.	Switched pumps. Restarted unit.
Scrubber ECIS Flow	10/5/12 12:46	10/5/12 12:51	5.72	Malfunction - Carbon Screw	Plugged carbon screw caused carbon feed loss.	Cleared screw. Restarted unit.
Scrubber ECIS Flow	10/5/12 14:53	10/5/12 14:54	1.02	Malfunction - Carbon Screw	Plugged carbon screw caused carbon feed loss.	Cleared screw. Restarted unit.
SCC Pressure Using Seals	10/6/12 18:50	10/6/12 18:51	0.58	Malfunction - Valve Malfunction	Lost emergency water pressure on valve malfunction.	Repaired valve. Restarted unit.

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Event	Start Time	End Time	Duration	Category	Cause	Resolution
SCC Temperature	10/9/12 18:05	10/9/12 18:12	7.28	Malfunction - Instrument	Bad boiler level switch caused operator to reduce temp.	Adjusted switch. Restarted unit.
RJ DP	10/12/12 11:56	10/12/12 12:15	19.12	Malfunction - Instrument	Split in redundant transmitters caused DP problems.	Calibrated transmitters. Restarted unit.
RJ DP	10/12/12 13:15	10/12/12 13:25	9.77	Malfunction - Instrument	Split in redundant transmitters caused DP problems.	Calibrated transmitters. Restarted unit.
RJ DP	10/13/12 11:14	10/13/12 12:13	58.88	Malfunction - Instrument	Split in redundant transmitters caused DP problems.	Calibrated transmitters. Restarted unit.
RJ DP	10/16/12 8:48	10/16/12 10:11	82.67	Malfunction - Instrument	Split in redundant transmitters caused DP problems.	Calibrated transmitters. Restarted unit.
THC	10/22/12 15:45	10/22/12 16:44	59.40	Malfunction - Combustion Anomaly	Unexpected and unpreventable combustion upset caused THC.	Reviewed waste feeds. Restarted unit.
SDA ECIS Pressure	10/25/12 10:11	10/25/12 10:22	11.38	Malfunction - ECIS Screw	Bearing and gear malfunction on ECIS Screw feeder.	Replaced screw feeder. Restarted unit.
THC	10/26/12 15:36	10/26/12 16:36	60.02	Malfunction - Combustion Anomaly	Unexpected and unpreventable combustion upset caused THC.	Reviewed waste feeds. Restarted unit.

HERITAGE\_WTI, INC.  
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Equipment	Start Date	End Date	Time	Problem	Cause	Resolution
RJ DP	10/31/12 20:53	10/31/12 20:58	5.17	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.
THC	11/1/12 12:20	11/1/12 12:34	13.98	Malfunction - Lance Plugging	Plugging of the high BTU lance caused poor combustion and THC.	Cleared lance. Restarted unit.
RJ DP	11/2/12 11:27	11/2/12 11:33	6.20	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.
RJ DP	11/2/12 11:44	11/2/12 11:45	1.07	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.
RJ DP	11/2/12 11:59	11/2/12 12:18	19.10	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.
RJ DP	11/2/12 15:13	11/2/12 15:45	32.05	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.
RJ DP	11/2/12 16:29	11/2/12 18:11	101.82	Malfunction - Ring Jets	Ring Jet piping problem caused inability to maintain pressure.	Repaired piping on 11/2.

179.39

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Item	Date/Time	Date/Time	Value	Category	Description	Action
RJ DP	11/3/12 9:58	11/3/12 10:26	27.93	Malfunction - Prior AWFCO	Prior AWFCO caused loss of ring jet OPL.	Restarted unit.
SDA ECIS Pressure	11/3/12 18:57	11/3/12 19:46	49.10	Malfunction - ECIS Motor	ECIS motor failure necessitate unit shutdown for repair.	Motor repaired. Unit restarted.
SCC Pressure Using Seals	11/4/12 5:35	11/4/12 5:36	0.58	Malfunction - Clinker Fell	Ash fall from SCC into quench caused seal pressure loss	Unit restarted.
SDA ECIS Flow	11/5/12 8:37	11/5/12 8:57	20.15	Malfunction - ECIS Screw	ECIS screw failure caused shut down for repair.	WO#125223. Repaired screw. Restarted unit.
THC	11/7/12 22:25	11/7/12 23:16	51.12	Malfunction - Combustion Anomaly	Unexpected and unpreventable combustion upset caused THC.	Reviewed waste feeds. Restarted unit.
RJ DP	11/27/12 9:42	11/27/12 9:50	8.28	Malfunction - Ring Jet Pump	Plugging in ring jet pump caused flow loss.	Cleaned strainer. Restarted unit.
SDA ECIS Flow	11/29/12 0:17	11/29/12 0:19	2.08	Malfunction - Blower motor	Broken belt on blower motor caused carbon flow and pressure loss.	WO#125590. Replaced belts. Restarted unit.
SDA ECIS Flow	11/29/12 0:22	11/29/12 1:02	39.78	Malfunction - Blower motor	Broken belt on blower motor caused carbon flow and pressure loss.	WO#125590. Replaced belts. Restarted unit.

199.02

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SEMI-ANNUAL SSMP, EE,  
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Parameter	Start Date/Time	End Date/Time	Duration (min)	Reason	Description	Action
SDA ECIS Pressure	11/29/12 0:35	11/29/12 1:02	26.78	Malfunction - Blower motor	Broken belt on blower motor caused carbon flow and pressure loss.	WO#125590. Replaced belts. Restarted unit.
SCC Pressure Using Seals	12/7/12 11:04	12/7/12 11:04	0.48	Malfunction - Clinker Fell	Large ash fall from SCC caused pressure spike.	Restarted unit.
THC	12/7/12 11:08	12/7/12 12:07	58.88	Malfunction - Clinker Fell	Large ash fall from SCC caused pressure spike and THC.	Restarted unit.
SCC Pressure Using Seals	12/19/12 2:33	12/19/12 2:34	0.50	Malfunction - Clinker Fell	Ash fall from SCC caused pressure spike.	Maintained draft using ID Fan Damper.
THC	12/19/12 2:44	12/19/12 3:36	52.20	Malfunction - Clinker Fell	Ash fall from SCC caused pressure spike and THC.	Restarted unit.
Scrubber pH	12/29/12 16:42	12/29/12 17:53	70.78	Malfunction - Caustic Pump	Loss of suction to caustic pump caused pH loss.	Repaired pump. Restarted unit.

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C. Startup, Shutdown, or Malfunction Plan Revision History

9/30/2003	0	Initial Plan
2/27/2004	1	ESP OPLs added. Malfunction list updated.
6/23/2005	2	Revised section on operating modes.
10/27/2006	3	RCRA Permit modifications. Malfunction list updated.
3/15/2007	4	Malfunction list updated and comments added addressing instances beyond the operator's control.
6/6/2007	5	Malfunction list updated and further comments added addressing instances beyond the operator's control.
10/16/2007	6	Corrected minor deficiencies noted by OEPA.
9/1/2008	7	Revised to reflect facility name change
6/12/2009	8	This revision included, in Section 1.6.3.1, more detailed descriptions of the most common malfunction events that occur at the facility. It also included a description of data collection procedures during times when residence time expires while an exceedance event is taking place in Section 1.6.3.
12/9/2010	9	Revision created to reflect OPL changes resulting from the MACT CPT completed in 2010. Additionally, new malfunctions were added to Table 2-2.
5/1/2011	10	Revision incorporated a discussion of the exceedance investigation process and procedures. Table 2-2 was also slightly revised to include addition malfunctions.
7/5/2012	11	Revision 11 (7/5/2012) created to improve language surrounding the reporting and documentation during startup and shutdown events.

## SEMI-ANNUAL EXCESS EMISSION AND CMS REPORT

### Section I – General Information

#### A. Facility Information

Facility ID:	02-15-0233
Responsible Official's Name / Title:	Stewart Fletcher / General Manager
Street Address:	1250 Saint George Street
City:	East Liverpool
State:	Ohio
Zip Code:	43920
Facility Name:	Heritage-WTI, Inc. d/b/a Heritage Thermal Services
Facility Local Contact Name:	Local contact is the same information as given above.

B. Relevant standard(s) or other requirement(s) that is/are the basis for this report:

63.10(e)(3) – Excess Emissions and Continuous Monitoring System Performance Report

C. Are you requesting a waiver of recordkeeping and/or reporting requirements under the applicable relevant standard(s) in conjunction with this report?

☐ Yes ☒ No

If you answered yes, you must submit the application for a waiver of recordkeeping and/or reporting requirements together with this report. The application for waiver should include whatever information you consider useful to convince the Administrator that a waiver of recordkeeping or recording is warranted. (63.10(f)(3))

D. Check the box that corresponds to the reports you are submitting:

- ☐ Summary Report Only (Complete Sections II and IV)
- ☒ Excess Emission and CMS Performance Report and Summary Report (Complete Sections II, III, and IV).

### Section II – Certification

Based upon information and belief formed after a reasonable inquiry, I as a responsible official of the above-mentioned facility, certify the information contained in this report is accurate and true to the best of my knowledge.

Stewart Fletcher, General Manager

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

1/29/13

**Section III – Excess Emissions and CMS Performance Report**

A. Excess Emissions

1. Have any excess emissions or exceedances of a parameter occurred during this reporting period?

☒ Yes ☐ No

2. If you answered yes, complete the following table for each period of excess emissions and/or parameter monitoring exceedances, as defined in the relevant standard(s), that occurred during periods other than startups, shutdowns, and/or malfunctions of your affected source. (63.10(c)(7)-(11))

**See next page for completed table.**



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THC	7/14/12 8:16	7/14/12 9:15	59.48	Operator Error - Container inspection	Improperly inspected drum caused poor combustion and THC.	Restart unit.
THC	7/16/12 17:23	7/16/12 18:22	58.88	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	7/31/12 16:51	7/31/12 17:42	51.15	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	8/3/12 18:24	8/3/12 19:22	57.93	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	8/13/12 11:58	8/13/12 12:17	18.98	Operator Error - Feed Mix	Operator failed to identify problem waste feed leading to THC spike.	Reduce charge size. Restart unit.
THC	8/27/12 21:08	8/27/12 22:08	59.95	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.

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Unit	Date	Time	Time	Time	Time	Time
THC	8/29/12 13:43	8/29/12 13:45	2.08	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	8/31/12 16:53	8/31/12 17:53	59.95	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	9/7/12 0:06	9/7/12 1:06	59.92	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	9/21/12 18:50	9/21/12 19:47	56.80	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
THC	9/21/12 20:47	9/21/12 21:47	59.98	Operator Error -Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
SCC Temperature	10/5/12 10:23	10/5/12 10:55	31.97	Operator Error - Poor Operation	Operator failed to maintain temperature during AWFCO.	Increased temperature. Restarted unit.

870.7

HERITAGE WTI, INC.  
SEMI-ANNUAL SSMP, EE,  
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Process	Event Date	Event Time	Value	Operator Error	Operator Error Description	Operator Error Action
SCC Temperature	10/5/12	10/5/12	104.43	Operator Error - Poor Operation	Operator failed to maintain temperature during AWFCO.	Increased temperature. Restarted unit.
SCC Temperature	10/17/12	10/17/12	10.77	Operator Error - Poor Operation	Operator failed to maintain temperature during AWFCO.	Increased temperature. Restarted unit.
THC	10/22/12	10/22/12	58.92	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.
SCC Pressure Using Seals	11/3/12 9:55	11/3/12 9:56	1.02	Operator Error - Poor Operation	Failure to control waste feed cause high temp and fan loss.	Reduced temp and steam. Restarted unit.
RJ DP	11/3/12	11/3/12	19.63	Operator Error - Poor Operation	Failure to control waste feed cause high temp and fan loss.	Reduced temp and steam. Restarted unit.
THC	11/4/12	11/4/12	33.10	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC.	Reduce charges. Restart unit.

227.87

HERITAGE WTI, INC.  
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Event	Date	Time	Duration (min)	Event	Cause / Description	Corrective Action
THC	11/6/12	18:31	11/6/12 19:29	57.92	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC. Solidify material. Restart unit.
THC	11/14/12	9:31	11/14/12 10:30	58.95	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC. Reduce charge size. Restart unit.
THC	11/20/12	2:38	11/20/12 3:22	43.92	Operator Error - Poor Operation	Operator failed to identify flow problem causing THC.. Corrected flow issue. Restarted unit.
THC	11/20/12	8:03	11/20/12 8:27	24.22	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC. Reduce charge size. Restart unit.
SCC Temperature	11/23/12	13:11	11/23/12 13:21	9.82	Operator Error - Poor Operation	Operator failed to maintain SCC temperature. Regained temperature. Restarted unit.
THC	12/4/12	19:41	12/4/12 20:39	57.85	Operator Error - Feed Prep	Improperly prepared drum caused poor combustion and THC. Removed material from mix. Restarted unit.
SCC Temperature	12/27/12	9:38	12/27/12 9:55	17.03	Operator Error - Poor Operation	Operator failed to maintain SCC temperature. Increased burner. Restarted unit.

108.92

91386

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B. CMS Performance

1. Has a CMS been inoperative (except for zero/low-level and high-level checks), out of control (as defined in 63.8(c)(7)(i)), repaired, or adjusted during this reporting period? ☒ Yes ☐ No

2. If you answered yes, complete the following table for each period a CMS was out of control, repaired, or adjusted: (63.10(c)(5)-(6), (10)-(12); 63.8(c)(8).

THC	CAI	Stack monitor #1	7/8/2012	7/9/2012	Instrument Drift	Manual Calibration	Manual Calibration
THC	CAI	Stack monitor #2	9/6/2012	9/7/2012	Instrument Drift	Manual Calibration	Manual Calibration
PROCESS FLOW	USI	Stack monitor #1	10/16/2012	10/17/2012	Instrument Drift	Manual Calibration	Manual Calibration
PROCESS FLOW	USI	Stack monitor #1	11/18/2012	11/19/2012	Instrument Drift	Manual Calibration	Manual Calibration

3. Indicate the total process operating time during the reporting period. (63.10(c)(13))

Total process operating time (days):

Days in reporting period:	184
Facility total process operating time (days):	167.04
Total days on waste:	163.90
Total days on fuels:	3.14

**Section IV – Summary Report – Gaseous and Opacity Excess Emissions and CMS Performance**

**A. Report Date and Submittal Reporting Period**

Indicate the reporting period covered by this submittal and the date of this summary report.  
(63.10(e)(3)(vi))

Reporting Period	Reporting Period End Date	Summary Report Date
July 1, 2012	December 31, 2012	January 31, 2013

**B. Process Description and Monitoring Equipment Information**

Complete the following process description and monitoring equipment information table for each affected source process unit:

236,010 minutes of unit burning/ retaining hazardous waste; 4,529 minutes on virgin fuels.
--

Rotary Kiln Incineration System
---------------------------------

Rotary kiln and ancillary equipment for combustion of hazardous wastes.
---

See Table 1 and 2 below.
--------------------------

questions about ~~yes~~ (5) ~~extrapolation of~~  
 (1) ~~changes since test~~  
 (2) ~~ATCO instances~~  
 (3) ~~OPs don't match~~  
 (4) ~~CO & Hydrocarbon~~  
 (6) ~~Ph based on prior testing vs. mf. record~~  
 (7) ~~the OPs not in ROC but in semi annual~~  
 (8) ~~extrapolation of~~  
 (9) ~~Ph based on prior testing vs. mf. record~~  
 (10) ~~diff. modes of operation~~  
 (11) ~~can't find same operating record~~  
 (12) ~~rolling averages~~

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TABLE 1 - APPLICABLE EMISSIONS STANDARDS

Emissions Parameter	Limit	Citation
Destruction and Removal Efficiency (DRE)	≥99.99%	40 CFR 63.1203(c)(1)
PCDDs/PCDFs	≤0.20 ng/dscm TEQ basis	40 CFR 63.1219(a)(1)(i)
HCl/Cl <sub>2</sub>	≤ 32 ppmv dry as HCl	40 CFR 63.1219(a)(6)
Mercury	≤ 130 µg/dscm	40 CFR 63.1219(a)(2)
Semi volatile Metals (SVM)	≤ 230 µg/dscm	40 CFR 63.1219(a)(3)
Low Volatile Metals (LVM)	≤ 92 µg/dscm	40 CFR 63.1219(a)(4)
Totals Hydrocarbons	≤ 10 ppmv	40 CFR 63.1219(a)(5)(ii)
Particulate Matter (PM)	≤ 0.013 gr/dscf or 34 mg/dscm	40 CFR 63.1219(a)(7)

Semi-extrapolated  
 low

TABLE 2 - OPERATING PARAMETERS

Process Parameter (Tag ID)	Units	Avg. Period	Basis	Limit
Minimum Feed Lance Atomization Pressure <sup>1</sup>	Psig	Instant.	Mfg. Rec.	30
Maximum SCC Pressure (PT-4307 & PT-4308)	In. w.c.	Reference September 4, 2003 letter from US EPA Region 5 concerning this requirement.		
Maximum Temperature at ESP Inlet (TI-6002A/B)	°F	1-hr	CPT	424
Maximum Pumpable Waste Feed Rate (WQI-9000T)	Lb/hr	1-hr	CPT	29,926
Maximum Total Waste Feed Rate (WQI-9000F)	Lb/hr	1-hr	CPT	35,069
Minimum Kiln Temperature (TI-4300A/B)	°F	1-hr	CPT	1,718
Minimum SCC Temperature (TI-4310A/B)	°F	1-hr	CPT	1,747
Maximum Process Gas Flow rate (FI-7510A/B)	Scfm	1-hr	CPT	67,505
Minimum Loc. 1 Carbon Feed Rate (WI-7003)	Lb/hr	1-hr	CPT	
Minimum Loc. 2 Carbon Feed Rate (WI-7002)	Lb/hr	1-hr	CPT	

<sup>1</sup> Each liquid lance has a pressure switch. When the pressure drops below 30 psig on any lance the feed from that lance will be automatically cutoff. Tag Ids : PSL-3113 (High BTU), PSL-3123 (Organic), PSL-3143 (Aqueous), PSL-3133 (Sludge), PSL-3153 (Slurry), and PSL-3100A/B (Sludge 2).

CChore pressure - every second  
 rolling 1 hour  
 (A)(3)  
 (A)(6)  
 (A)(7)

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Process Parameter (Tag ID)	Units	Avg. Period	Basis	Limit
Minimum Loc. 1 Carbon Feed Pressure (PI-5732)	Psig	1-hr	CPT	3.0
Minimum Loc. 2 Carbon Feed Pressure (PI-7132)	Psig	1-hr	CPT	3.0
Maximum Ash Feed Rate (WQI-9000AH)	Lb/hr	12-hr	CPT	10,333
Minimum Ring Jet Pressure Drop (DPI-7401)	in. w.c.	1-hr	CPT	28.0
Minimum Scrubber (1 <sup>st</sup> and 2 <sup>nd</sup> Packed Bed, combined) Liquid Flow Rate (FQI-7201)	gpm	1-hr	CPT	1,287
Minimum Scrubber (Ring Jet) Liquid Flow Rate (FI-7404A/B)	gpm	1-hr	CPT	446
Minimum Scrubber (Ring Jet) Blowdown (FI-7403)	gpm	1-hr	CPT	19.5
Minimum Scrubber (Ring Jet) Tank Level (LIC-7401)	feet	1-hr	CPT	1.7
ESP Parameters	The ESP is operating with all fields available with set points of 45,000 volts and 90 sparks per minute, each field; and minimum current of 100 milliamps, each field (see US EPA letters dated Dec. 10 and Dec. 27, 2003).			
Minimum Scrubber (1 <sup>st</sup> and 2 <sup>nd</sup> Packed Bed, combined) Feed Pressure	in. w.c.	1-hr	Mfg. Rec.	Not Req'd.
Minimum Scrubber (1 <sup>st</sup> and 2 <sup>nd</sup> Packed Bed) Pressure Drop	in. w.c.	1-hr	Mfg. Rec.	1.3
Minimum Scrubber (3 <sup>rd</sup> Stage) Liquid pH (AI-7307A/B)	pH units	1-hr	Prior Testing	7.6
Maximum Total Chlorine Feed Rate (WQI-9000CL)	Lb/hr	12-hr	Prior Testing	2,032
Maximum Total Semi volatile Metals Feed Rate (WQI-9000SV)	Lb/hr	12-hr	Prior Testing	83.2
Maximum Total Low Volatile Metals Feed Rate (WQI-9000LV)	Lb/hr	12-hr	Prior Testing	400
Maximum Total Pumpable Low Volatile Metals Feed Rate (WQI-9000PLV)	Lb/hr	12-hr	Prior Testing	400
Maximum Total Mercury Feed Rate (WQI-9000M)	lb/hr	12-hr	Prior Testing	0.14
Stack THC (AI-7850)	ppmv	1-hr	Regulatory Requirement	<10

1<sup>st</sup> & 2<sup>nd</sup> stages - low energy

3<sup>rd</sup> -

high energy

same as 3<sup>rd</sup>



### Monitoring Equipment Information

Monitored Parameter	Instrument Description	Range and Limits of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Power -ESP Field #1	Environmental Elements Controller	0 – 500 ma	EI-6700	7/2/2012	N/A
Power -ESP Field #2	Environmental Elements Controller	0 – 500 ma	EI-6710	7/2/2012	N/A
Power -ESP Field #3	Environmental Elements Controller	0 – 750 ma	EI-6720	7/2/2012	N/A
Scrubber Second Packed Bed Liquid PH	Electro-Chemical Devices	0 – 14 pH units	AT-7307A	Performed Weekly	± 5% of range
Scrubber Second Packed Bed Liquid PH	Electro-Chemical Devices	0 – 14 pH units	AT-7307B	Performed Weekly	± 5% of range
Scrubber 2nd Packed Bed Differential Pressure	Rosemount Transmitter /Pressure transducer	0 – 8 in w.c.	DPT-7307	9/29/2012	± 2% of range
Combustion Oxygen Injection Flow	Rosemount Differential Pressure Transmitter	0 – 250 in. w.c.	FT-1530	6/6/2012	± 2% of range
Pumpable Feed Rate High BTU Lance	Micromotion Mass Flow Meter	0 – 10,000 lb/hr	FT-3110	7/1/2012	± 10% of range
Pumpable Feed Rate Organic Lance	Micromotion Mass Flow Meter	0 – 10,000 lb/hr	FT-3120	7/1/2012	± 10% of range
Pumpable Feed Rate Sludge Lance	Positive displacement pump (calculation)	0 – 15,000 lb/hr	FT-3130	Not Applicable (calculation)	N/A
Pumpable Feed Rate Aqueous Lance	Micromotion Mass Flow Meter	0 – 10,000 lb/hr	FT-3140	7/1/2012	± 10% of range
Pumpable Feed Rate Shurry Lance	Positive displacement pump (calculation)	0 – 15,000 lb/hr	FT-3150	Not Applicable (calculation)	N/A

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Monitored Parameter	Instrument Description	Range and Units of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Scrubber First Packed bed flow rate	PolySonics Doppler Flow	0 – 1,500 gpm	FT-7204A	6/14/2012	± 10% of range
Scrubber First Packed bed flow rate	Panametrics Ultrasonic Flow	0 – 1,500 gpm	FT-7204B	6/14/2012	± 10% of range
Scrubber Second Packed bed flow rate	PolySonics Doppler Flow	0 – 1,500 gpm	FT-7304A	6/14/2012	± 10% of range
Scrubber Second Packed bed flow rate	Panametrics Ultrasonic Flow	0 – 1,500 gpm	FT-7304B	6/14/2012	± 10% of range
Ring Jet Blow Down	Panametrics Ultrasonic Flow	0 – 500 gpm	FT-7403A	6/14/2012	± 10% of range
Ring Jet Blow Down	Panametrics Ultrasonic Flow	0 – 500 gpm	FT-7403B	6/14/2012	± 10% of range
Scrubber Ring Jet Liquid Flow Rate	Panametrics Ultrasonic Flow	0 – 1,500 gpm	FT-7404A	6/14/2012	± 10% of range
Scrubber Ring Jet Liquid Flow Rate	Panametrics Ultrasonic Flow	0 – 1,500 gpm	FT-7404B	6/14/2012	± 10% of range
Ring Jet Vessel Level	Rosemount Transmitter/ Pressure	0 – 5 feet	LT-7401A	9/29/2012	± 2% of range
Ring Jet Vessel Level	Rosemount Transmitter/ Pressure	0 – 5 feet	LT-7401B	9/29/2012	± 2% of range
Kiln Inlet Shroud (differential) Pressure (reference to SCC)	Rosemount Pressure transducer	0 - 10 in. w.c.	PDT-4305	7/9/2012	± 2% of range
Kiln Outlet Shroud (differential) Pressure (reference to SCC)	Rosemount Pressure transducer	0 - 10 in. w.c.	PDT-4306	7/9/2012	± 2% of range
Kiln Inlet Shroud Pressure (reference to ambient)	Rosemount Pressure transducer	0 - 10 in. w.c.	PT-4307	7/9/2012	± 2% of range

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Monitored Parameter	Instrument Description	Range and Units of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Scrubber 1st Packed Bed Differential Pressure	Rosemount Transmitter /Pressure transducer	0 – 8 in w.c.	PDT-7207	6/6/2012	± 2% of range
Ring Jet Differential Pressure	Rosemount Transmitter/ Pressure	0 – 40 in w.c. (changed 2005)	PDT-7401A PDT-7405A	10/15/2012	± 2% of range
Ring Jet Differential Pressure	Rosemount Transmitter/ Pressure	0 – 40 in w.c. (changed 2005)	PDT-7401B PDT-7405B	10/15/2012	± 2% of range
Sludge 2 Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3100A	7/9/2012	± 5% of range
Sludge 2 Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3100B	7/9/2012	± 5% of range
High Btu Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3113	7/9/2012	± 5% of range
Organic Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3123	7/9/2012	± 5% of range
Sludge Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3133	7/9/2012	± 5% of range
Aqueous Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3143	7/9/2012	± 5% of range
Slurry Lance Atomizing Pressure	Generic pressure switch	0 – 50 psi	PSL-3153	7/9/2012	± 5% of range
Kiln / Secondary Combustion Chamber Pressure	Rosemount Transmitter / Pressure transducer	-3.5 - +2.5 in. w.c.	PT-4300A	WFCO Test done every 3 weeks	± 2% of range
Kiln / Secondary Combustion Chamber Pressure	Rosemount Transmitter / Pressure transducer	-3.5 - +2.5 in. w.c.	PT-4300B	WFCO Test done every 3 weeks	± 2% of range
Spray Dryer Carbon Carrier Fluid Pressure	Rosemount Transmitter / Pressure	0 – 15 psi	PT-5732	7/9/2012	± 2% of range

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Monitored Parameter	Instrument Description	Range and Units of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Scrubber Carbon Carrier Fluid Pressure	Rosemount Transmitter / Pressure	0 – 15 psi	PT-7132	7/9/2012	± 2% of range
ESP Inlet Temperature	Rosemount Transmitter / Thermocouple	0 - 600 °F	TT-6002A	WFCO Test done every 3 weeks	± 2% of range
ESP Inlet Temperature	Rosemount Transmitter / Thermocouple	0 - 600 °F	TT-6002B	WFCO Test done every 3 weeks	± 2% of range
Kiln Temperature	Land CD1 Thermometer	752 – 3272 °F	TT-4300A	2/9/2012	± 1% of range
Kiln Temperature	Land CD1 Thermometer	752 – 3272 °F	TT-4300B	6/12/2012	± 1% of range
Secondary Combustion Chamber Temperature	Land CD1 Thermometer	752 – 3272 °F	TT-4310A	7/2/2012	± 1% of range
Secondary Combustion Chamber Temperature	Land CD1 Thermometer	752 – 3272 °F	TT-4310B	2/9/2012	± 1% of range
Pumpable Feed Rate Direct Drum Scale A	Generic Load Cell (Loss in weight calculation)	0 – 5,000 lb	WT-3050	12/8/2012	± 3% of range
Pumpable Feeds Direct Drum Scale B	Generic Load Cell (Loss in weight calculation)	0 – 5,000 lb	WT-3055	12/8/2012	± 3% of range
Pumpable Feeds Tanker Scale A (South Bay)	Generic Load Cell. Loss in weight calculation	0 – 80,000 lb	WT-3060	12/8/2012	± 3% of range
Pumpable Feeds Tanker Scale B (East Bay)	Generic Load Cell. Loss in weight calculation	0 – 100,000 lb	WT-3065	12/8/2012	± 3% of range
Conveyor Scale Drum Processing	Generic Load Cell (Scale)	0 – 2,000 lb	WT-3070 ARTS Data	12/8/2012	± 3% of range
Splitting Scale Drum Processing	Generic Load Cell (Scale)	0 – 5,000 lb	WT-3075 ARTS Data	12/8/2012	± 3% of range

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Monitored Parameter	Instrument Description	Range and Units of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Floor Scale Drum Processing Lab Pack	Generic Load Cell (Scale)	0 – 2,000 lb	WT-3080 ARTS Data	12/8/2012	± 3% of range
Kiln Bulk Feed Crane	Generic Load Cell (Scale)	0 – 10,000 lb	WT-3105	12/8/2012	± 3% of range
Scrubber Carbon Feed Rate	Generic Load Cell / Loss in Weight Feeder	0 – 50 lb/hr	WT-7002	12/8/2012	± 1% of range
Spray Dryer Carbon Feed Rate	Generic Load Cell / Loss in Weight Feeder	0 – 50 lb/hr	WT-7003	12/8/2012	± 1% of range
Total Hydrocarbon Analyzer (Stack)	California Analytical Instruments, Inc.	0 – 100 ppm 0 – 500 ppm as Propane	AI-7850A	12/27/2012	± 5% of span
Total Hydrocarbon Analyzer (Stack)	California Analytical Instruments, Inc.	0 – 100 ppm 0 – 500 ppm as Propane	AI-7850B	12/27/2012	± 5% of span
Stack Oxygen Analyzers (dry)	Ametek	0 – 25 %	AI-7860A	12/27/2012	± 1.0% Oxygen
Stack Oxygen Analyzers (dry)	Ametek	0 – 25 %	AI-7860B	12/27/2012	± 1.0% Oxygen
Stack Oxygen Analyzers (wet)	Ametek	0 – 25 %	AI-7865A	12/27/2012	± 1.0% Oxygen
Stack Oxygen Analyzers (wet)	Ametek	0 – 25 %	AI-7865B	12/27/2012	± 1.0% Oxygen
Flue Gas Flow Rate (Scrubber Outlet)	Calculation Stack - Reheat Flow	0 – 80,000 scfm	FT-7510A	12/27/2012	< 15% relative accuracy or < 7.5% of the applicable standard
Flue Gas Flow Rate (Scrubber Outlet)	United Sciences UltraSonic Gas Flow	0 – 80,000 scfm	FT-7510B	12/27/2012	< 15% relative accuracy or < 7.5% of the applicable standard

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Monitored Parameter	Instrument Description	Range and Units of Measurement	Tag Number	Last Calibration/Audit Date	Accuracy of Measurement
Flue Gas Flow Rate (Stack)	United Sciences UltraSonic Gas Flow	0 – 100,000 scfm	FT-7805A	12/27/2012	< 15% relative accuracy or < 7.5% of the applicable standard
Flue Gas Flow Rate (Stack)	Calculation Process + Reheat Flow	0 – 100,000 scfm	FT-7805B	12/27/2012	< 15% relative accuracy or < 7.5% of the applicable standard

### C. Emission Data Summary

Complete the following emission data summary table for each affected source:  
(63.10(e)(3)(vi)(I))

Total duration of excess emission / parameter exceedances (minutes for opacity, hours for gases)

Parameter	Excess Emission / Parameter Exceedance (minutes for opacity, hours for gases)	Total Operating Time of Affected Source during the Reporting Period (min)	% of Total Source Operating Time during which Excess Emissions Occurred
Maximum Ash Feed Rate (WQI-9000AH)	0	240,539	0.00%
Maximum Process Gas Flowrate (FI-7510A/B)	0	240,539	0.00%
Maximum Pumpable Waste Feed Rate (WQI-9000T)	0	240,539	0.00%
Maximum SCC Pressure (PI-4300A/B)	99.75	240,539	0.04%
Maximum Temperature at ESP Inlet (TI-6002A/B)	44	240,539	0.02%
Maximum Total Chlorine Feed Rate (WQI-9000CL)	0	240,539	0.00%
Maximum Total Low Volatile Metals Feed Rate (WQI-9000LV)	0	240,539	0.00%
Maximum Total Mercury Feed Rate (WQI-9000M)	0	240,539	0.00%
Maximum Total Pumpable Low Volatile Metals Feed Rate (WQI-9000PLV)	0	240,539	0.00%
Maximum Total Semi volatile Metals Feed Rate (WQI-9000SV)	0	240,539	0.00%
Maximum Total Waste Feed Rate (WQI-9000F)	0	240,539	0.00%

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Process Parameters	Unit (Description)	Total Operating Time of Process (hours) during reporting period (2012)	% of Total Operating Time during reporting period exceeds setpoints
Minimum Feed Lance Atomization Pressure	49.55	240,539	0.02%
Minimum Kiln Temperature (TI-4300A/B)	223.72	240,539	0.09%
Minimum Loc. 1 Carbon Feed Pressure (PI-5732)	87.27	240,539	0.04%
Minimum Loc. 2 Carbon Feed Pressure (PI-7132)	0	240,539	0.00%
Minimum Loc. 1 Carbon Feed Rate (WI-7003)	89.4	240,539	0.04%
Minimum Loc. 2 Carbon Feed Rate (WI-7002)	56.73	240,539	0.02%
Minimum Ring Jet Pressure Drop (DPI-7401)	711.53	240,539	0.30%
Minimum SCC Temperature (TI-4310A/B)	452.27	240,539	0.19%
Minimum Scrubber (1 <sup>st</sup> and 2 <sup>nd</sup> Packed Bed) Pressure Drop	33.47	240,539	0.01%
Minimum Scrubber (1 <sup>st</sup> and 2 <sup>nd</sup> Packed Bed, combined) Liquid Flow Rate (FQI-7201)	0	240,539	0.00%
Minimum Scrubber (3 <sup>rd</sup> Stage) Liquid pH (AI-7307A/B)	70.78	240,539	0.03%
Minimum Scrubber (Ring Jet) Blowdown (FI-7403)	73.83	240,539	0.03%
Minimum Scrubber (Ring Jet) Liquid Flow Rate (FI-7404A/B)	180.03	240,539	0.07%
Minimum Scrubber (Ring Jet) Tank Level (LIC-7401)	2.03	240,539	0.00%
THC	1316.52	240,539	0.55%
ESP Controls	19.58	240,539	0.01%
		240,539	

Summary of causes of excess emissions / parameter exceedances (% of total duration by cause):

	Duration (minutes)	% of Total Duration
Startup/shutdown	0	0.00%
Control Equipment Problems	1220	34.75%
Process Problems	159.17	4.53%
Other unknown causes	183.83	5.24%
Other known causes	1947.47	55.48%

#### D. CMS Performance Summary

Complete the following CMS performance summary table for each affected source:  
(63.10(e)(3)(vi)(J))

Total duration of CMS downtime
0 minutes
Total operating time of affected source during the reporting period
240,539 min
Percent of total time spent in line during which CMS was down
0.00 %

<sup>1</sup> Heritage-WTI, Inc. maintains redundant CMS equipment in most cases to prevent CMS downtime. There were no periods during this time that this redundancy did not prevent CMS downtime.

Duration of excess emissions / parameter exceedances by cause	
Monitoring equipment malfunctions	0
Non-monitoring equipment malfunctions	0
Quality assurance / quality control calibrations	0
Other known causes	0
Other unknown causes	0



**E. CMS, Process, or Control Changes**

1. Have you made any changes in CMS, processes, or controls since the last reporting period?  
☐ Yes      ☒ No      (if no, end of form) (63.10(2)(3)(vi)(K))
2. If you answered yes, please describe the changes below:

**END OF REPORT**